

Silicon Carbide Products

SCProbond™ Application Guide

General Selection	Wear Resistance	Corrosion Resistance	Thermal Shock Resistance	Forming Methods	Relative Price
Nitride Bonded Silicon Carbide	VG	G	VG	Thixotropic (Vibration) Cast	Less Expensive
Reaction Bonded Silicon Carbide	E	VG	E	Thixotropic or Slip Cast	More Expensive

G = Good VG = Very Good E = Excellent

Dimensional Selection	Size Limitations	Wall Thickness Range (Cross Section)	Standard Tolerance
Nitride Bonded Silicon Carbide	L=60" (1524mm)	Min. 0.375" (9.5mm) Max. 3.000" (76mm)	<i>As Cast:</i> +/- 0.040" (1mm) or 0.5% dimension (whichever is greater)
Reaction Bonded Silicon Carbide	L=14.5" (368mm) Dia=14.5" (368mm)	<u>Uniform Wall (Slipcast)</u> Min. 0.125" (3.175mm) Max. 0.400" (10.16mm) <u>Non-Uniform Wall (Thixotropic Vibration Cast)</u> Min. 0.30" (7.62mm) Max. 2.00" (50.8mm)	<i>As Cast:</i> Same as above <i>With Additional Machining:</i> Pre Fired "Green" Machine +/- 0.010" (0.25mm) Post Fired Grind +/- 0.005" (0.13mm)



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